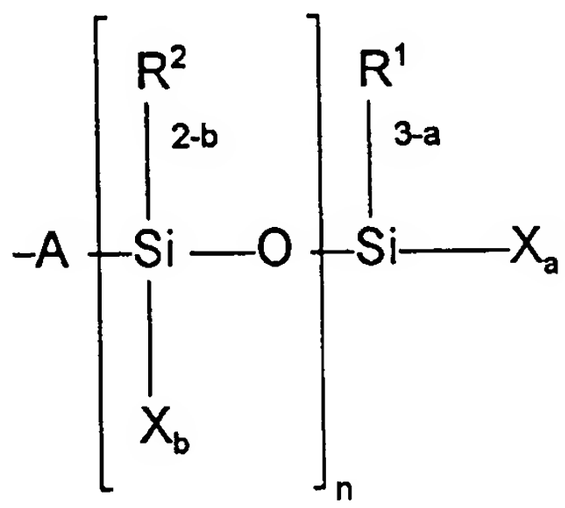
CLAIMS

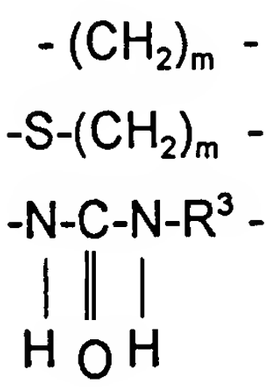
1. A hotmelt adhesive composition containing a mixture of at least one reactive binder and at least one non-reactive binder, characterized in that at least one reactive binder consists of silane-functional polyisobutylenes and/or silane-functional hydrogenated polybutadienes and/or silane-functional poly-α-olefins and the non-reactive binder(s) is selected from the group consisting of butyl rubbers, poly-α-olefins, polybutenes, rubbers based on styrene block copolymers, rubbers based on statistical diene homopolymers and/or copolymers.

2. A composition as claimed in claim 1, characterized in that the silane-functional groups of the reactive binder(s) are represented by formula (1):



(1)

where -A- can represent



(2)

(3) or

(4)

and R^1 and R^2 may be the same or different and represent an alkyl group containing 1 to 20 carbon atoms, an aryl group containing 6 to 20 carbon atoms or an arylalkyl group containing 7 to 20 carbon atoms, X can be a

hydroxyl group or a hydrolyzable group, a = 0, 1, 2 or 3 and b = 0, 1 or 2, the sum of a and b being 1 or greater than 1, and n is an integer of 0 to 18, m is an integer of 0 to 4 and R^3 represents

$-(CH_2)_m$ or

$-(CH_2)_m-N(H)-(CH_2)_m-$

3. A composition as claimed in at least one of the preceding claims, characterized in that it contains

(a) 20 to 70% by weight of silane-functional binder,

(b) 5 to 30% by weight of non-reactive binder,

(c) 20 to 30% by weight of water-binding fillers, preferably molecular sieves of the 3A type,

(d) 5 to 30% by weight of fine-particle inert fillers selected from the group consisting of ground or precipitated chalks, kaolins, clays, carbon blacks,

(e) 0.1 to 2% by weight of organofunctional silanes,

(f) 0.1 to 2% by weight of catalysts,

(g) 0 to 3% by weight of antiagers selected from the group consisting of antioxidants, UV stabilizers, anti-ozonants, hydrolysis stabilizers.

4. A composition as claimed in claim 3, characterized in that it contains 2 to 40% by weight of plasticizer.

5. A two-component composition as claimed in claim 3 or 4, characterized in that one component contains constituents (a) to (e) and (g) and the second component consists of constituents (b), (c), (d), (f) and optionally plasticizer.

6. A two-component composition as claimed in claim 3 or 4, characterized in that one component contains constituents (a) to (g) and the second component consists of a water-containing paste which contains water in dissolved, adsorbed or emulsified form or in the form of solid water-releasing

substances and optionally a non-reactive binder (b) and/or plasticizer.

7. A process for producing the compositions claimed in at least one of the preceding claims, characterized in that the constituents are subjected to high-shear mixing to homogeneity, optionally in vacuo or in a dry inert gas atmosphere.

8. The use of the compositions claimed in at least one of the preceding claims as a one-component or two-component adhesive for the production of double glazing or multiple glazing.

9. Double or multiple glazing, characterized in that the compositions claimed in at least one of the preceding claims serve simultaneously as

- spacers between the individual layers of glass,
- a matrix for the moisture-absorbing substances,
- a water vapor barrier and
- an elastic edge seal/bond

for the glazing.

10. A process for the production of double glazing as claimed in claim 9, characterized by the following process steps:

(a) the layers of glass to be joined are held at the predetermined distance apart,

(b) the compositions claimed in at least one of claims 1 to 4 are injected between the glass layers at their edges, optionally with heating and profiling,

(c) the composition cures to form an elastic seal/bond by absorbing moisture from the space between the layers of glass and/or the ambient air.

11. A process as claimed in claim 9, characterized in that the components of the compositions claimed in claim 5 or 6 are mixed immediately before step (b) is carried out.

12. A process for the production of double glazing as claimed in claim 9, characterized by the following process steps:

(a) the compositions claimed in at least one of claims 1 to 4 are applied to

the edge of one layer of glass, optionally with heating and profiling,

(b) the second layer of glass or additional layers of glass is/are positioned over the first in such a way that the layers of are in exact alignment one above the other,

(c) the layers of glass are pressed together in such a way that the adhesive completely wets the edges of both or all layers of glass and the predetermined distance between the layers is reached,

(d) the adhesive composition occurs to form an elastic seal/bond by absorbing moisture from the space between the layers of glass and/or the ambient air.

13. A process as claimed in claim 12, characterized in that the components of the compositions claimed in claim 5 or 6 are mixed immediately before step (a) is carried out.